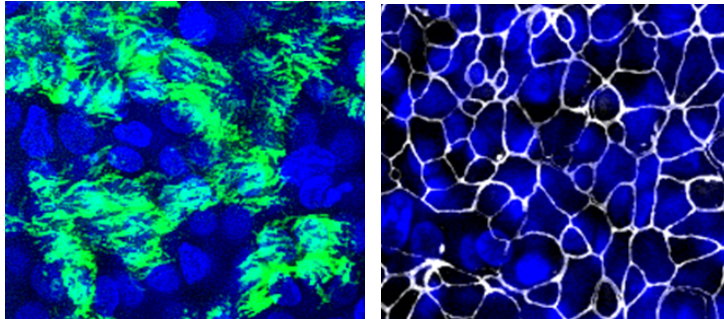


## Project

Topic: Primary cell models derived from porcine airway cells

Primary cell models derived from porcine airway cells provide a physiologically relevant system to study respiratory biology and disease. These models serve as an innovative platform to evaluate the effects of nebulized biopharmaceuticals directly on airway cells, offering insights into drug safety and efficacy. While commonly used cell lines provide valuable data, primary cell models offer closer representation of *in vivo* conditions, enabling more precise assessments. This approach aims to bridge the gap between preclinical research and real-world respiratory therapies.



## PhD student

Janik Martin is a PhD student at the Institute of Applied Biotechnology of the University of Applied Sciences Biberach (RiB). He has a master's degree in Pharmaceutical Biotechnology and is specialized in inhalable biopharmaceuticals.

With a solid academic background in pharmaceutical sciences and biotechnology, Janik is dedicated to the advancement of drug delivery systems, with a particular focus on the development and optimization of inhalable therapeutics. His research aims to improve the efficacy, safety and patient compliance of biopharmaceuticals through inhalation technologies. Janik's work involves the development of suitable *in vitro* models for inhalable drug delivery. Further he collaborates with interdisciplinary teams, combining expertise in chemistry, pharmacology, and biomedical engineering to address critical challenges in the field.

